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SHEET 1 OF 2

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 08/684,243
INF	DAMATION DISCLOSURE EMENT BY APPLICANT	RPPLICANT RAKIB, et al.	MECEIVED
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NRME	CLASS	SUB CLRSS	FILING DATE IF APPROP.
PS	IA	Re. 35,774	Apr. 21, 1998	Moura, et al.	348	12	Nov. 16, 1994
Oc	В	4,829,569	May 9, 1989	Seth-Smith, et al.	380	10	Jul. 8, 1986
70	C	4.894,789	Jan. 16, 1990	Yee	364	521	Feb. 22, 1988
DS.	D	5,093,718	Mar. 3, 1992	Hoarty, et al.	358	84	Sep. 28, 1990
25	İΕ	5,130,983	Jul. 14, 1992	Heffner, III	370	85.8	Mar. 27, 1990
75	F	5,133.079	Jul. 21, 1992	Ballantyne, et al.	455	4.1	Aug. 28, 1990
PS	G	5,195,092	Mar. 16, 1993	Wilson, et al.	370	94.2	Aug. 30, 1991
62	H	5,200,993	Apr. 6, 1993	Wheeler, et al.	379	96	May 10,1991
灰	1	5,247,347	Sep. 21, 1993	Litteral, et al.	358	85	Sep. 27, 1991
PC	1	5,373,288	Dec. 13, 1994	Blahut	340	825.08	Oct. 23, 1992

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INFORMATION DISCLOSURE STRIEMENT BY RPPLICANT		APPLICANT RAKIB, et al.	APROLIVE
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29	A	5,408,465	Apr. 18,1995	Gusella, et al.	370	17	Jun. 21, 1993
K	В	5,550,578	Aug. 27, 1996	Hoarty, et al.	348	7	Oct. 6, 1994
DC	C	5,572,517	Nov. 5, 1996	Safadi	370	50	Mar. 10, 1995
DE	D	5,572.528	Nov. 5, 1996	Shuen	370	85.13	Mar. 20, 1995
<del>   </del>	E	5,828,655	Oct. 27, 1998	Moura, et al.	370	236	Aug. 21, 1996
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ORMATION DISCLOSURE TEMENT BY APPLICANT	APPLICANT Rakib, et. al.			
SEVERAL SHEETS IF NECESSARY)	FILING DATE 01/12/2001	GROUP 2664		
	PATENT AND TRADEMARK OFFICE ORMATION DISCLOSURE TEMENT BY APPLICANT	PATENT AND THADEMARK OFFICE TER-002.3P D5  ORMATION DISCLOSURE APPLICANT Rakib, et. al.  FILING DATE		

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EKRMINER INITIAL				DOCUMENT NUMBER	OOCUMENT NUMBER ORTE		ODCUMENT NUMBER DRTE NAME		CLASS	SUB CLASS	FILING DATE IF RPPROP.
29	Α	4,677,624	Jun. 30, 1987	Betts, et al.	371	43	Mar. 1, 1985				
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EKRMINER INITIRL		
29	S	Ungerboeck: "Trellis-Coded Modulation with Redundant Signal Sets. Part II: State of the Art" IEEE Communications Magazine, Vol. 25, No. 2, February 1987, pgs. 12-21.
PS	T	Pietrobon et. al. "Rotationally Invariant Nonlinear Trellis Codes for Two-Dimensional Modulation" IEEE  Transactions on Information Theory, Vol. 40, No. 6, November 1994, pgs. 1773-1791.
PS	U	Biglieri et al. "Introduction to Trellis-Coded Modulation with Applications" 1991, MacMillan, New York.

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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 08/684,243 P.C.
INF	DAMATION DISCLOSURE TEMENT BY APPLICANT	APPLICANT RAKIB, et al.	APR
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NIMAKE	ER .	DOCUMENT NUMBER	OBTE	NAME	CLASS	CLASS	FILING DATE IF APPROP.	
ps	IA	5,157,686	Oct. 20, 1992	Omura, et al.	375	1	Jun. 24, 1991	
PS	В	5,164,958	Nov. 17, 1992	Omura	375	1	Jul. 19, 1991	
R	c	5,166,952	Nov. 24, 1992	Omura, et al.	375	1	May 24, 1990	
PS	D	5,253,268	Oct. 12, 1993	Omura, et al.	375	1	Jun. 24, 1991	
ρS	E	5,737,329	Apr. 7, 1998	Horiguchi	370	342	Apr. 12, 1996	
(XC	F	5,930,235	Jul. 27, 1999	Arai	370	252	Feb. 28, 1997	
PS	G	5,822,359	Oct. 13, 1998	Bruckert, et al.	375	200	Oct. 17, 1994	
PS	Н	5,610,911	Mar. 11, 1997	Ishikawa, et al.	370	503	Sep. 28, 1994	
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FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002.2P	SERIAL NO. 08/684,243
INF	ORMATION DISCLOSURE TEMENT BY RPPLICANT	APPLICANT RAKIB, et a	L
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S "A Wireless Multimedia Network on a Time Division Duplex CDMA/TDMA", Seki K et al., IEICE Transactions on Communications. vol. E78-B, no. 7, 1 July 1995, pages 1002-1015.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	RPPLICANT RAKIB, et al.	
(USE SEVERAL SHEETS IF NECESSARY)	FILING DATE July 19, 1996	GROUP 2602

**ILS. PATENT DOCUMENTS** 

EKRMINI INITIRL	E.R.	DOCUMENT NUMBER	DATE NAME		CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	Α	5,751,739	May 12, 1998	Seshadri, et al.	. 371	43	Apr. 29, 1994
PS	В	4,218,654	Aug. 19, 1980	Ogawa, et al.	370	97	Feb. 21, 1979
79	C	5,072,445	Dec. 10, 1991	Nawata	370	104	Nov. 30, 1989
DS	D	5,617,410	Apr. 1, 1997	Matsumoto	370	342	Mar. 15, 1995
DC	E	5,712.982	Jan. 27, 1998	Marcel	395	200.17	Sep. 20, 1995
<del> </del>	F	5,745,484	Apr. 28, 1998	Scott	370	347	Jun. 5, 1995
15	G	5,761,198	Jun. 2, 1998	Kojima	370	337	Sep. 22, 1995
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EXAMINI	ER	DOCUMENT NUMBER	DATE	NE	IME	CLASS	CLASS SUB		PROP.
区	Α	5,499,236	Mar 12, 1996	Giallorenzi,	et al.	370	18	Aug 16	1994
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ATTY. DOCKET NO. U.S. DEPARTMENT OF COMMERCE FORM PTO-1449 PATENT AND TRADEMARK OFFICE TER-002.3P (Rev. 2-32) **RPPLICANT** INFORMATION DISCLOSURE STATEMENT BY APPLICANT RAKIB, et al. GROUP FILING DATE unknown February 9, 1998 (USE SEVERAL SHEETS IF NECESSARY)

ILS. PATENT DOCUMENTS

EHRMINER INITIRL		DOCUMENT NUMBER	DATE NAME		CLASS	CFU22 208	FILING DATI IF APPROP.	
PS	Α	5,488,412	Jan 30, 1996	Majeti, et al.	348	10	Mar 31, 1994	
PS	В	5,512,935	Apr 30, 1996	Majeti, et al.	348	9	Mar 31, 1994	
PS	С	5,534,913	Jul 9, 1996	Majeti, et al.	348	7	Mar 31, 1994	
RS	D	5,586,121	Dec 17, 1996	Moura, et al.	370	404	Apr 21, 1995	
PS	E	5,594,872	Jan 14, 1997	Kawano, et al.	395	200.15	Apr 26, 1994	
()S	F	5,608,446	Mar 4, 1997	Carr, et al.	348	6	May 9, 1995	
1/5	G	5,608,728	Mar 4, 1997	Ulm, et al.	370	488	Apr 13, 1995	
PS	Н	5,619,531	Apr 8, 1997	Taylor, et al.	375	222	Nov 14, 1994	
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FORM PTD-1449 (Rev. 2-32)	PRIENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. TER-002:3P	SERIAL NO. 08/895,612	
INFORMATION DISCLOSURE STRIEMENT BY APPLICANT		RPPLICANT RAKIB		
(USE	SEVERAL SHEETS IF NECESSARY)	FILING DATE July 16, 1997	GROUP unknown	

U.S. PATENT DOCUMENTS

EKAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING ORTE IF APPROP.
R	A	5,442,627	Aug. 15, 1995	Viterbi, et al.	370	22	Jun. 24, 1993
PS	В	5,452,328	Sep. 19, 1995	Rice	375	210	Jul. 30, 1993
PS	С	5,090,024	Feb. 18, 1992	Vander Mey, et al.	375	1	Aug. 23, 1989
75	D	4,933,930	Jun. 12, 1990	Lien et al.	370	18	Oct. 31, 1988
PS	Ε	5,448,555	Sep. 5, 1995	Bremer et al.	370	20	Jun. 14, 1993
PL	F	5,404,570	Apr. 4, 1995	Charas et al.	455	22	Nov. 23, 1992
25	G	5,440,585	Aug. 8, 1995	Partridge, III	375	261	Jun. 14, 1993
PS	Н	4,723,164	Feb. 2, 1988	Nienaber	358	148	Jun. 28, 1985
ρŚ	ı	5,418,813	May 23, 1995	Schaffner et al.	375	205	Dec. 6, 1993
PS	J	4,926,130	May 15, 1990	Weaver	328	14	Jan. 19, 1988
RS	К	5,224,122	Jun. 29, 1993	Bruckert	375	1	Jun. 29, 1992
PS	L	5,325,394	Jun. 28, 1994	Bruckert	375	1	Mar. 3, 1993
75	М	4,773,066	Sep. 20, 1988	Kirkman	370	85	Apr. 15, 1986
1/5	N	4,912,721	Mar. 27, 1990	Pidgeon Jr., et al.	375	1	Apr. 29, 1988
125	0	5,235,619	Aug. 10, 1993	Beyers, II et al.	375	38	Mar. 20, 1990

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EKRMINER INITIAL		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUBCLASS	SS TRANSLATI	
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rs	Т	Westlaw Dialog Search	Technology Center 260
PS	U	R. De Gaudenzi et al., "Performance Evaluation of Quas (QS-CDMA) for Satellite Mobile Systems," GLOBECOM 1800-1804. (04/1990)	

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(USE	SEVERAL SHEETS IF NECESSARY)	FILING DATE July 16, 1997	GROUP unknown

U.S. PATENT DOCUMENTS

EKAMINEA INITIAL		DOCUMENT NUMBER	DATE	NRME	CLASS	CLASS	FILING DATE IF APPROP.
PS	Α	4,811,365	Mar 7, 1989	Manno	. 375	107	Nov 7, 1986
ps	В	5,425,027	Jun 13, 1995	Baran	370	69.1	Jan 4, 1993
PS	С	4,688,210	Aug 18, 1987	Eizenhofer, et al.	370	335	Mar 18, 1986
PS	D	5,539,730	Jul 23, 1996	Dent	370	320	Jan 11, 1994
PS	Ε	5,533,013	Jul 2, 1996	Leppanen	370	206	Apr 11, 1995
PS	F	5,481,533	Jan 2, 1996	Honig, et al.	375	206	May 12, 1994
PS	G	5,390,166	Feb 14, 1995	Rohani, et al.	370	335	Jul 14, 1993
PS	Н	5,363,404	Nov 8, 1994	Kotzin, et al.	370	352	Jul 13, 1993
PC	ı	5,345,439	Sep 6, 1994	Marston	370	18	Apr 23, 1993
15	J	5,347,304	Sep 13, 1994	Moura, et al.	348	12	Jul 28, 1993
RS	K	4,475,208	Oct 2, 1984	Ricketts	375	1	Jan 18, 1982
NE	L	4,635,274	Jan 6, 1987	Kubota	375	1	Apr 25, 1985
145	М	5,463,660	Oct. 31, 1995	Fukasawa, et al.	375	205	Aug. 3, 1994
145	N	5,442,662	Aug. 15, 1995	Fukasawa, et al.	375	205	Jun. 16, 1994
PS	0	5,414,699	May 9, 1995	Lee	370	18	Sep. 27, 1993

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TR. Lupas et al., "Linear Multiuser Detectors for Synchronous Code Division Multiple Access Channels," IEEE Transactions on Information Theory, Vol. 35, Issue 1, pgs. 123-136. (01/1989)

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SHEET 3 OF 4

U.S. BEENEMENT OF COMMERCE SERIAL NO. ATTY. DOCKET NO. **FORM PTO-1449** TER-002.3P 08/895,612 PRTENT AND TRADEMARK OFFICE (Rev. 2-32) INFORMATION DISCLOSURE **APPLICANT** STATEMENT BY APPLICANT **RAKIB GROUP** FILING DATE July 16, 1997 unknown (USE SEVERAL SHEETS IF NECESSARY)

U.S. PRTENT DOCUMENTS

EXAMIN		DOCUMENT NUMBER	DALE	3MRH	CLASS	CFU22 ZNB	FILING DATE IF APPROP.
75	Α	5,345,472	Sep. 6, 1994	Lee	375	1	Aug. 2, 1993
X	В	5,297,162	Mar. 22, 1994	Lee, et al.	375	1	Jun. 4, 1993
PS	С	5,327,455	Jul. 5, 1994	De Gaudenzi, et al.	375	1	Mar. 18, 1993
ns	D	5,319,634	Jun. 7, 1994	Bartholomew, et al.	370	18	Oct. 7, 1991
725	E	5,416,797	May 16, 1995	Gilhousen, et al.	375	705	Jan. 24, 1992
PS	F	4,554,579	Nov. 19, 1985	Citta	358	86	Sep. 6, 1984
PS	G	4,553,161	Nov. 12, 1985	Citta	358	86	Sep. 6, 1984
PS	Н	5,231,664	Jul. 27, 1993	Bestler, et al.	380	20	Nov. 14, 1991
15	T	5,239,557	Aug. 24, 1993	Dent	371	1	Apr. 10, 1992
NS	J	4,460,992	Jul. 17, 1984	Gutleber	370	19	Nov. 4, 1982
65	К	5,363,403	Nov. 8, 1994	Schilling, et al.	375	1	Apr. 22, 1993
PS	L	4,470,138	Sep. 4, 1984	Gutleber	370	18	Nov. 4, 1982
135	M	5,394,391	Feb. 28, 1995	Chen, et al.	370	18	Oct. 15, 1992
PS	N	5,442,625	Aug. 15, 1995	Gitlin, et al.	370	18	May 13, 1994
P5	0	5,233,630	Aug. 3, 1993	Wolf	375	67	May 3, 1991
15	Р	4,757,460	Jul. 12, 1988	Bione, et al.	364	514	Jun. 14, 1985
15	Q	5,235,615	Aug. 10, 1993	Omura	375	1	Jul. 21, 1992
Mg	R	5,373,502	Dec. 13, 1994	Turban	370	18	Mar. 25, 1993
118	S	5,353,300	Oct. 4, 1994	Lee, et al.	375	1	Jun. 7, 1993
(25	T	5,193,094	Mar. 9, 1993	Viterbi	371	43	Mar. 7, 1990
ns	U	5,359,624	Oct. 25, 1994	Lee, et al.	375	1	Jun. 7, 1993
18	V	5,309,474	May 3, 1994	Gilhousen, et al.	375	1	Mar. 27, 1992
19	W	5,280,472	Jan. 18, 1994	Gilhousen, et al.	370	18	Mar. 9, 1992
ns	X	5,313,454	May 17, 1994	Bustini, et al.	370	13	Apr. 1, 1992
(3	Y	5,467,342	Nov. 14, 1995	Longston, et al.	370	17	Oct. 5, 1994
62	Z	5,305,308	Apr. 19, 1994	English, et al.	370	32.1	Oct. 29, 1992

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INF	ORMATION DISCLOSURE TEMENT BY APPLICANT	APPLICANT RAKIB	
(USE	SEVERAL SHEETS IF NECESSARY)	FILING DATE July 16, 1997	GROUP unknown

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NIMRKE	ER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
PS	A	4,748,681	May 31, 1998	Schmidt	455	33	Apr. 28, 1986
1/5	В	5,295,152	Mar. 15, 1994	Gudmundson, et al.	375	1	Apr. 10, 1992
PS	С	5,442,700	Aug. 15, 1995	Snell, et al.	380	15	Sep. 22, 1994
DS	D	5,557,316	Sep. 17, 1996	Hoarty, et al.	348	7	Sep. 29, 1994
PC	E	5,511,067	Apr. 23, 1996	Miller	370	18	Jun. 17, 1994
125	F	5,398,258	Mar. 14, 1995	Su, et al.	375	200	Oct. 26, 1993
125	G	5,583,853	12/10/1996	Giallorenzi, et al.	370	441	11/28/95
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EXAMINER

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